

Patent Claims

1. A dental molding comprising an outer incisal layer and a dentin layer beneath said outer incisal layer, wherein a layer of fluorescent material is provided between the dentin layer and the incisal layer.
2. The dental molding according to Claim 1, wherein the layer of fluorescent material is composed of 5.00 to 95 percent by weight monomer, 0.5 to 90 percent by weight crosslinking agent, 0.1 to 1 percent by weight initiator and 0.01 to 30 percent by weight additive.
3. The dental molding according to Claim 2, wherein the layer of fluorescent material comprises up to 40 percent by weight bead polymer.
4. The dental molding according to Claim 2, wherein the layer of fluorescent material comprises up to 2 percent by weight pigment.
5. The dental molding according to Claim 2, wherein the monomer is at least one member selected from the group consisting of ethylenically unsaturated monomers, monofunctional or polyfunctional acrylates and methacrylates, alkyl methacrylates, methyl methacrylate, ethyl methacrylate, isobutyl and *n*-butyl methacrylate, *n*-hexyl methacrylate, ethylhexyl methacrylate and hydroxyethyl methacrylate.
6. The dental molding according to Claim 2, wherein the crosslinking agent is at least one member selected from the group consisting of polyfunctional methacrylates and polyfunctional acrylates, tetraethylene glycol dimethacrylate, triethylene glycol dimethacrylate, diethylene glycol dimethacrylate, ethylene glycol dimethacrylate, polyethylene glycol dimethacrylate, butanediol dimethacrylate, hexanediol dimethacrylate, decanediol dimethacrylate and dodecanediol dimethacrylate, bis-GMA, bis-GA, trimethylolpropane trimethacrylate, products of the reaction of isocyanates, diisocyanates or triisocyanates with hydroxymethacrylates or hydroxyacrylates, pentaerythritol tetraacrylates.

7. The dental molding according to Claim 3, wherein the bead polymer is at least one member selected from the group consisting of polymethyl methacrylate or copolymers with a particle size of 5 to 70 μm and a number average molecular weight between 400,000 and 900,000, wherein the copolymer is allyl methacrylate, ethyl methacrylate, ethylhexyl methacrylate, methyl acrylate, methacrylic acid, isobutyl and *n*-butyl methacrylate, hexyl methacrylate, butanediol dimethacrylate, ethylene glycol dimethacrylate.
8. The dental molding according to Claim 2, wherein the initiator is at least one member selected from the group consisting of peroxides, dibenzoyl peroxide, tertiary amines, dimethyl *p*-toluidine.
9. The dental molding according to Claim 4, wherein the pigment is at least one member selected from the group consisting of titanium dioxide, chromium oxides, antimony oxides, iron oxides, carbon, barium sulfate, azo calcium salts, nickel oxides, azo compounds, ultramarine and mixed oxides of these metals.
10. The dental molding according to Claim 2, wherein the additive is at least one member selected from the group consisting of fluorescent pigments and/or dyes: benzoid and quinoid aromatics and heteroaromatics, triaryl methanes, anthraquinones, chromenes, xanthenes, indoles, quinolines, acridines, phenoxazines, phenothiazines, azo and stilbene dyes, indigo derivatives, phthalocyanines, tetrapyrrole dyes; optical brighteners: thiophenediyl benzoxazoles, stilbene benzoxazoles, 7-amino-4-methyl coumarin, dibenzopyridine, azaanthracenes, phenylenediamine, naphthylamine, coumarin, 7-hydroxycoumarin; and fillers: pyrogenic silicon dioxide, highly dispersed titanium dioxide with a particle size of less than 100 nm.
11. The dental molding according to Claim 10, wherein the particle size of the fillers is approximately 10 nm.
12. The dental molding according to Claim 1, which is an artificial tooth.
13. A method of producing a dental molding according to Claim 1, said method comprising arranging a layer of fluorescent material between the dentin layer and the incisal layer.

14. The method according to Claim 13, wherein the dental molding is an artificial tooth.
15. A method of providing a patient with a more aesthetic appearance, said method comprising affixing a dental molding according to Claim 1 to a jaw bone of said patient.
16. The method according to Claim 15, wherein the dental molding is an artificial tooth.